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Shimazawa

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(54) **MAGNETORESISTIVE EFFECT THIN-FILM
MAGNETIC HEAD**

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(75) **Inventor:** **Koji Shimazawa, Tokyo (JP)**

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(73) **Assignee:** **TDK Corporation, Tokyo (JP)**

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 180 days.

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Primary Examiner—George J. Letscher

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Assistant Examiner—Christopher R Beacham

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(74) *Attorney, Agent, or Firm*—Burns, Doane, Swecker & Mathis, L.L.P.

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ABSTRACT

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An MR thin-film magnetic head includes a lower shield layer, an upper shield layer, a MR multilayer sandwiched between the lower shield layer and the upper shield layer, the MR multilayer being electrically connected with the lower shield layer and the upper shield layer, a current flowing through the MR multilayer in a direction perpendicular to surfaces of layers, and a lead conductor having one end electrically connected to the upper shield layer and the other end connected to a terminal electrode. The lead conductor is patterned such that an area of said lead conductor located above said lower shield layer becomes small.

(51) **Int. Cl.⁷** **G11B 5/60; G11B 5/10**

(52) **U.S. Cl.** **360/319**

(58) **Field of Search** 360/319, 324.11,
360/324.2, 234.5, 322

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16 Claims, 10 Drawing Sheets

